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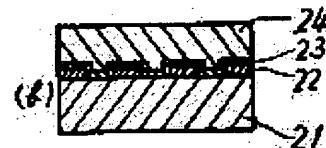
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(54) PRODUCTION OF STAMPER

(57)Abstract:

PURPOSE: To form a stamper which is excellent in transferring and replicating characteristics of a fine pattern and is highly resistive to abrasion and corrosion, by forming a stamper layer on the surface of a coating layer by a nickel electrodeposition method then separating the stamper from the recording disc.

CONSTITUTION: A reactive film of photoresist or low m.p. metal is provided on a glass substrate 21 at 0.05W0.1 μ m thickness, and the film thereof is provided with grooves or ruggedness by laser exposure method, whereby a finely patterned layer 22 is formed. An alloy of gold and nickel is vapor-deposited on the layer 22 at the thickness necessary for nickel electrodeposition, whereby a conductive film 23 is obtained. A nickel layer 24 is formed on the resulted film 23. When the layer 24 obtained in such a way is separated from a resist recording disc 21, the resist 22 remains on the layer 24; therefore, the resist 22 is removed by using a stripping soln. for resist, then the stamper consisting of the gold or gold-nickel alloy film 23 having the surface transferred with the fine patterns of the recording disc with good reproducibility and the layer 24 is obtained.



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